

Name: **Dr. SRINIVAS TALSILA**  
Designation: Assistant Professor  
Department: Electronics and Communication Engineering  
Mail I'd: [srinivas\\_t@vnrvjiet.in](mailto:srinivas_t@vnrvjiet.in)



Experience (in years):            Teaching: 9                            Research:                            Others (if any, specify):

**1. Educational / Technical qualifications:**

S.No	Level (UG / PG / Ph.D)	Year of passing	Specialization
1	Ph.D	2023	Signal & Image Processing
2	M.Tech	2014	VLSI Systems Design
3	B.Tech	2010	ECE

**2. Teaching and Learning:**

- 2.1. Teaching Interests: Probability Theory and Stochastic Process, Signals and Systems, Electromagnetic Waves & Transmission Lines, Switching Theory and Logic Design, Digital Signal Processing, Microwave Engineering and Radar Systems
- 2.2. Novel Teaching & Learning Techniques adopted: WIT & WIL, Think pair share, Online teaching methods and Learning by Doing.
- 2.3. Involvement in curriculum updating / Design:

**3. Co-curricular and Extra-Curricular Activities**

- 3.1. Interests and Hobbies: Sports → Cricket, badminton
- 3.2. CCA/ECA Organized:
- 3.3. CCA/ECA participated:
- 3.4. Counseling and Mentoring Activity: 20 Students (1<sup>st</sup> year)
- 3.5. Committees involved in:

Department level:

1. Department Website Management
2. Department Placement Cell
3. CO & PO Mapping Team

Institute Level:

**4. Conference / Workshop / Seminar / Guest Lectures:**

4.1 Conducted:

1. Conducted IEEE SPS Student Branch Chapter Initiative on “**Latest Trends in Machine Learning for Signal Processing Applications**” is being organized by SPS, IEEE VNRVJiet & IIIT Hyderabad in association with SPS & WIE AG, IEEE Hyderabad Section on Aug 10-12, 2022.
2. Conducted IEEE Summer School on Nanotechnology–2022 “**A 4-day Training on Fabrication and Characterization of Nanomaterials**” on 16th -19th November-2022.

3. Organized IEEE **WiE International Leadership Summit 2022** held during Aug 26-27, 2022, at Marigold, Hyderabad.
4. Conducted “**International Conference on Recent Trends in Microelectronics, Automation, Computing and Communication Systems**” on 28–30 December 2022.
5. Conducted a workshop on “**Role of Mathematics in Mezzanine Technologies in Convergence 2k23**” at VNR VJIEET.
6. Conducted Panel Discussion on “Exploring the Horizons of ECE” on 26-05-2023 at VNR VJIEET.

#### 4.2 Attended:

- Attended IEEE SPS Student Branch Chapter Initiative on “**Latest Trends in Machine Learning for Signal Processing Applications**” is being organized by SPS, IEEE VNRVJIEET & IIT Hyderabad in association with SPS & WIE AG, IEEE Hyderabad Section on Aug 10-12, 2022.
- Attended IEEE Summer School on Nanotechnology–2022 “**A 4-day Training on Fabrication and Characterization of Nanomaterials**” on 16th -19th November-2022.
- Participated in the AICTE Recognized Faculty Development Programme on “**Image Processing Techniques and its Applications**” Conducted by Electrical Engineering Department from 23/05/2022 to 27/05/2022 (One Week) at NITTTR, Chandigarh.
- Participated in “**IP Awareness/Training program**” under National Intellectual Property Awareness Mission on October 19, 2022 organized by Intellectual Property office India.
- Participated in Online Continuing Education Program on “**IoT & ML for Social Relevant Applications**” conducted by NIT Warangal from 22-09-2022 to 27-09-2022.
- Participated in One week Faculty Development Program on “**Applications of Computer Vision Using Deep Learning**” conducted SRGEC during 20<sup>th</sup>-25<sup>th</sup> February 2023.
- Attended Workshop on CADENCE FIRST ENCOUNTER Tool
- Attended Workshop on EMBEDDED LINUX ON ZYNQ-7000 SOC USING VIVADO organized by CoreEL Technologies held on September 25th, 2015.
- Participated in the workshop on ANALOG & DIGITAL CMOS IC DESIGN FLOW USING MENTOR GRAPHICS EDA TOOLS held on June 9 & 10, 2016.
- Participated in a One-day workshop on ADVANCED PROGRAMMING TECHNIQUES WITH MATLAB held on 16th September 2016 at JNTUH College of Engineering.
- Participated in a Two Week ISTE STTP workshop on CMOS, MIXED SIGNAL AND RADIO FREQUENCY VLSI DESIGN Conducted by IIT Kharagpur from 30th jan, 2017 to 4th feb 2017.
- Participated in the AICTE sponsored two-week National Level Faculty Development Program on SPEECH, IMAGE & VIDEO PROCESSING TECHNIQUES, ANALYSIS & APPLICATIONS organized by MRECW from 6th to 8th Nov 2017.
- Participated in the Two-day faculty development programme on MULTIMEDIA SIGNAL TRANSMISSION THROUGH WIRELESS COMMUNICATIONS on June 12th & 13th 2018 in association with Capricot Technologies Pvt Ltd.
- Attend workshop on SCILAB conducted by IIT Bombay.

- Participated in a one-week FDP on EMBEDDED SYSTEMS & INTERFACING HANDS-ON organized by Ministry of Electronics and Information Technology, Government of India, endorsed by AICTE/UGC/NBA.
- Participated in a One-week Faculty Development Program on VLSI Chip Design Hands-on using open-source EDA organized by Electronics and ICT Academies held from 16-20 Dec 2019 under the Scheme of financial assistance for setting up of Electronics and ICT Academies of the Ministry of Electronics Information Technology (MeitY), Government of India.
- Attended and completed “One Week Online FDP/Certificate Course in Patent Filing Procedure” organized by Center of Research Development, Sree Saraswathi Tyagaraja College (Autonomous), Pollachi, Tamilnadu from 25-01-2021 to 30-01-2021.
- Attended a “Two Week Workshop on IoT and Its Applications” organized by EICT Academy IIT Guwahati, from 14-02-2022 to 25-02-2022.
- Participated in the Two-day seminar on Research scholars summit scheduled on Dec 3 to 4, 2018 in Technical Association with the Directorate of Research & Development, JNTUH, Hyderabad.
- Attended webinar on “MICRO/NANO systems Technology & Processes-An Industry Perspective” organized by Department of ECE, in association with ISTE students’ chapter, Saintgits College of Engineering, Kottayam, Kerala on 25th May 2020.
- Attended webinar on “Social Network Analysis through NodeXL” organized by Department of CSE, Bhavan’s Vivekananda College of Science, Humanities & Commerce, Sainikpuri in association with JNTUH on 19th May 2020.
- Attended webinar on “Development of Deep Learning Architecture” hosted by IETE-MUMBAI in association with PANTECH on 25th May 2020.
- Attended webinar on “Conversational Bot Design” hosted by IETE-MUMBAI in association with PANTECH on 30th May 2020.
- Attended webinar on “Brain Computer Interface” hosted by NITK-STEP in association with PANTECH on 05th June 2020.
- Attended webinar on “Brain Controlled Robot Design” hosted by NITK-STEP in association with PANTECH on 06th May 2020.
- Attended webinar on “Application Design of Brain Computer Interface” hosted by ADAMAS University in association with PANTECH on 13th June 2020.
- Attended webinar on “Internet of Things Using Arduino” hosted by Dr. Shyama Prasad Mukherjee University in association with PANTECH on 16th June 2020.
- Attended webinar on “Design of Brain Control Applications” hosted by Dr. B.R. Ambedkar National Institute of Technology Jalandhar in association with PANTECH on 26th June 2020.

## **5. Academic Contribution and Research & Consultancy:**

5.1. Invited Lectures:

5.2. Articles / Chapters published in Books: 1

5.3. Books published as single author or as editor:

5.4. Projects Guided:

a) UG: 8 b) PG: 1

5.5. Research Interests: Signal and Image Processing, Machine Learning and Deep Learning

5.6. Ph.D students :

a) Enrolled:

b) Submitted:

c) Awarded:

5.7. Papers published in reviewed journals:

S.No	Title of the Paper	Journal Name Vol.No. PP	ISBN/ISSN No.	Impact Factor/ Cite Score	Indexing
1	Deep Learning-based Leaf Region Segmentation using High-Resolution Super HAD CCD and ISOCELL GW1 Sensors	Journal of Sensors [Galley Proofs Submitted]	1687-725X	2.336	SCI
2	Black gram disease classification using a novel deep convolutional neural network	Multimedia Tools and Applications	1380-7501	2.577	SCI
3	Black gram Plant Leaf Disease (BPLD) dataset for recognition and classification of diseases using computer-vision algorithms	Data in Brief, Vol 45	2352-3409	2.4	SCOPUS+WOS(ESCI)
4	PLRSNet: a semantic segmentation network for segmenting plant leaf region under complex background	International Journal of Intelligent Unmanned Systems	2049-6427	1.8	SCOPUS+WOS(ESCI)
5	Plant Leaf Disease Detection and Classification Systems Using CNN Architectures	Computer Integrated Manufacturing Systems, 28(12), 445-487.	1006-5911	1.7	SCOPUS
6	Conventional Data Augmentation Techniques for Plant Disease Detection and Classification Systems-2022	Smart Innovation, Systems and Technologies (Vol 289 pp 279-281)	2190-3026	1.1	SCOPUS
7	Analysis of Low-Delay in 64-bit Vedic multiplier based MAC unit	IEEE Xplore	--	--	SCOPUS
8	A Survey on Latest Methodologies for the Identification of Plant Leaf Diseases-2019	International Journal of Emerging Technologies and Innovative Research (Vol 6 Issue 4 pp1406-1410)	2349-5162	--	Google Scholar

5.8. Papers presented at National / International Journals:

S.No	Title of the Paper	Names of the Conference/ Seminars	National/ International	Period
1	Disease Classification in Black gram Crop Using CNN Transfer Learning	International Conference on Intelligent Circuits and Systems (ICICS-2022)	International	8 <sup>th</sup> -9 <sup>th</sup> Apr 2022
2	Plant Leaf Disease Detection and Classification Systems Using CNN Architectures	International Conference On Recent Trends In Smart And Sustainable Agriculture For Food Security (SSAFS-2022)	International	21 <sup>st</sup> -22 <sup>nd</sup> Jan 2022
3	Conventional Data Augmentation Techniques for Plant Disease Detection and Classification Systems	International Conference on Intelligent Systems & Sustainable Computing (ICISSC-2021)	International	24 <sup>th</sup> September 2021
4	Internet of Things Protocols for Heterogeneous Devices and Cloud Services: Layered IoT Architectures	International Conference on Continuity, Consistency and Innovation in Applied Sciences and Humanities (ICCIASH-2020)	International	13 <sup>th</sup> & 14 <sup>th</sup> August 2020

5.9. Sponsored research Projects:

5.10 Consultancy Projects:

#### 6. Awards / Honors received:

- Qualified in GATE 2011 with GATE SCORE 320.
- Presented paper selected in Third place in the International Conference on Recent trends in Smart and Sustainable Agriculture for Food Security” (SSAFS-2022) held on 21<sup>st</sup> -22<sup>nd</sup> January 2022
- Secured top 5% and Elite+Silver certificate in NPTEL April-2023 for the Course **Deep Learning**.

7. **Motto:** IT AIN'T OVER TILL IT'S OVER